



National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

RESL - DOE Laboratory Accreditation Program

U.S. Department of Energy
1955 Fremont Avenue, MS 4149
Idaho Falls, ID 83415-4149
Mr. Scott O. Schwahn
Phone: 208-526-0324 Fax: 208-526-2548
E-mail: schwahso@id.doe.gov

CALIBRATION LABORATORIES

NVLAP LAB CODE 200366-0

IONIZING RADIATION

NVLAP Code: 20/I01

Dosimetry of X-Rays, Gamma Rays & Electrons

IRRADIATION OF PERSONNEL DOSIMETERS

Calibration Category	Radiation Type or Beam Code	Nominal Intensity Range	Uncertainty of Delivered Quantity (\pm) ^{note 1}
Gamma	²⁴¹ Am	(0.05 to 5) rem	3.5 %
	¹³⁷ Cs	0.03 rem to 500 rad	1.7 %
X-ray	M30 ^{note 2}	(0.03 to 10) rem	2.1 %
	M50 ^{note 2}	(0.03 to 10) rem	3.3 %
	M60 ^{note 2}	(0.03 to 10) rem	2.1 %
	M100 ^{note 2}	(0.03 to 10) rem	2.1 %
	M150 ^{note 2}	0.03 rem to 500 rad	2.1 %
	M200 ^{note 2}	(0.03 to 10) rem	3.3 %
	M250 ^{note 2}	(0.03 to 10) rem	3.3 %
	H50 ^{note 2}	(0.03 to 10) rem	3.3 %
	H60 ^{note 2}	(0.03 to 10) rem	3.3 %
	H100 ^{note 2}	(0.03 to 10) rem	3.3 %
	H150 ^{note 2}	(0.03 to 10) rem	2.1 %

2007-01-01 through 2007-12-31

Effective dates

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200366-0

	H200 <i>note 2</i>	(0.03 to 10) rem	3.3 %
	H250 <i>note 2</i>	(0.03 to 10) rem	3.3 %
	H300 <i>note 2</i>	(0.03 to 10) rem	3.3 %
	S60 <i>note 2</i>	(0.03 to 10) rem	2.1 %
	NS20 <i>note 3</i>	(0.03 to 10) rem	3.3 %
	NS80 <i>note 3</i>	(0.03 to 10) rem	3.3 %
	NS150 <i>note 3</i>	(0.03 to 10) rem	3.3 %
	WS150 <i>note 3</i>	(0.03 to 10) rem	3.3 %
Beta	²⁰⁴ Tl	(0.15 to 10) rem	4.6 %
	⁹⁰ Sr/ ⁹⁰ Y	(0.15 to 10) rem	2.4 %
	Uranium Slab	(0.15 to 10) rem	3.8 %

1. Represents an expanded uncertainty using a coverage factor, $k = 2$, at an approximate level of confidence of 95 %.
2. NIST X-ray designation in NBS 250-16.
3. ISO X-ray designation in ISO 4037, Pt. 1.

2007-01-01 through 2007-12-31

Effective dates

For the National Institute of Standards and Technology